



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
HEADQUARTERS, UNITED STATES ARMY, PACIFIC
FORT SHAFTER, HAWAII 96858-5100



APSL

27 December 2002

MEMORANDUM FOR SEE DISTRIBUTION

SUBJECT: Space Heater Safety

1. The safety, health, and welfare of our soldiers and civilians are of utmost concern to me. Recently, we experienced a tent fire within USARPAC involving a space heater. No one was injured, but the potential for tragedy was there.
2. To prevent tragedies, USARPAC units will use one of the military heaters enclosed. If military type-classified heaters are not available, units may use vented commercial heaters for mission-critical situations. Commercial heaters require approval by a responsible national standards organization, such as Underwriters Laboratories (UL), American National Standards Institute (ANSI), or the International Standards Organization (ISO).
3. Heaters that do not ventilate their smoke or fumes to the outside of the heated structure are not authorized. The heater will have a connected pipe and/or stack in order to direct the escape of smoke and fumes from within the heated structure. Unvented heaters are inherently dangerous because they vent exhaust containing carbon monoxide into living spaces. Take risk mitigation steps, to include following manufacturer's instructions, leaving tent doors and roof flaps open to allow air circulation, and using carbon monoxide detectors.
4. I cannot overemphasize the importance of training, testing, and licensing of personnel handling space heaters IAW with AR 600-55. The bottom line is commanders are responsible for complying with this AR and for publishing and enforcing standard operating procedures that embody the requirements of setting up and operating heaters in accordance with current regulations.

Encl

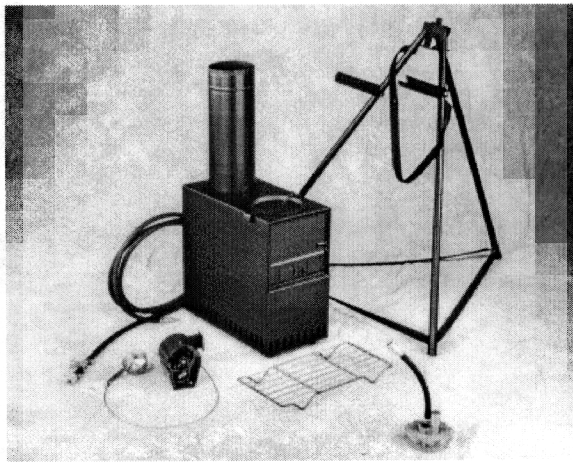

JAMES L. CAMPBELL
Lieutenant General, USA
Commanding

DISTRIBUTION:

A, B

Copy Posted At: <https://dcsper.usarpac.army.mil/public/safety/index.htm>

Space Heater Arctic (SHA)



Capabilities: Provides heated air (radiant and natural convective) to safely and efficiently warm soldiers operating in basic, cold, and extreme cold environments. Replaces antiquated, gasoline burning M-50 Yukon Heater.

Description: SHA is a lightweight, portable, multi-fueled, non-powered heater intended to heat five and ten man arctic tents. Provides a maximum heat output of 28K BTU with a high/low adjustment capability. Burns liquid (JP-8, JP-5, DF-1, DF-2, DF-A) and solid (coal & wood) fuels.

Power requirements: None.

Size: 17"L x 9"W X 17"H

Weight: 41 lbs

Contractor: Hunter Manufacturing Company, Solon, OH

Cost: \$735

Status/availability: CTA 50-909 Item, Available through DSCP

Transportability: Traditional modes

Supportability: Standard Army Retail Supply and Maintenance Systems, TM 10-4520-261-12&P

NSN: 4520-01-444-2375

Space Heater Small (SHS)



Capabilities: Provides heated air to safely and efficiently warm soldiers operating in basic, cold, and extreme cold environments. Provides new capability for heating smaller tents (4man or less). **Description:** SHS is a lightweight, portable, multi-fueled, non-powered heater intended to heat the 4 man Soldier Crew Tent. Provides a maximum heat output of 12K BTU with a high/low adjustment capability. Burns liquid (JP-8, JP-5, DF-1, DF-2, DF-A) fuels. Integral fuel tank eliminates the need for fuel can, fuel can stand, gravity feed adapter, hoses and fittings.

Power requirements: None.

Size: 16"L x 8.5"W X 14"H

Weight: 20 lbs

Cost: \$400 (estimated)

Status/availability: CTA 50-909 Item, Available through DSCP by FY02

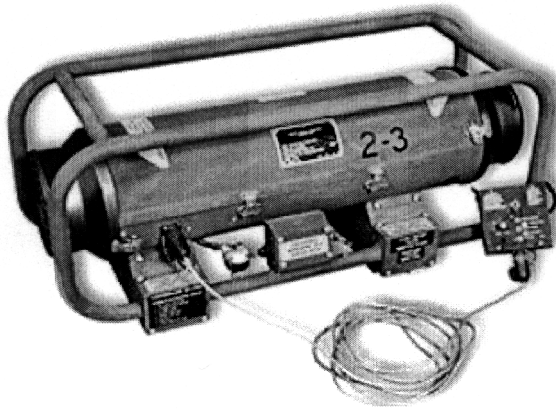
Transportability: Traditional modes

Supportability: Standard Army Retail Supply and Maintenance Systems

NSN: 4520-01-478-9207

POC: MAJ Tom Waild, DSN 256-5637/(508)233-5637

Space Heater Convective (SHC)



Capabilities: 35K BTU thermoelectric heater provides forced hot air circulation for shelters without the need for a field generator – generates its own power and recharges batteries. Automatic start and temperature control

Description: Delivers clean, breathable heat to e.g., Modular Command Post System, TOCs. Converts waste heat into electrical energy, which is used to power the blowers, pumps, ignition system, safety system, and control devices, and recharges its own starting battery

Power requirements: None.

Size: 40"x14"x18"; 6.1 ft³

Weight: 74 lbs

Cost: \$6-8,000 (estimated)

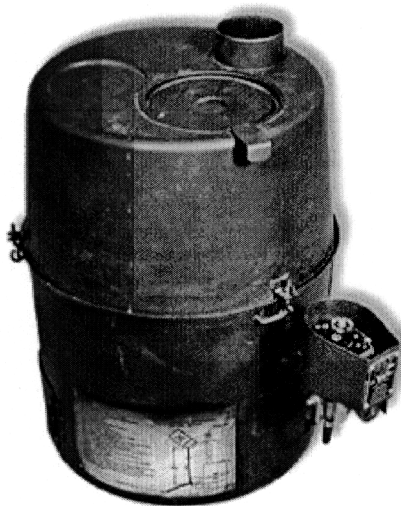
Status/availability: CTA 50-909 Item, Available through DSCP by FY02

Transportability: Traditional modes

Supportability: Standard Army Retail Supply and Maintenance Systems

NSN: 4520-01-431-8927

H-45 Space Heater



Capabilities: Provides heated air to safely and efficiently warm soldiers operating in basic, cold, and extreme cold environments. Replaces antiquated M-41 heater that had severe operational and safety deficiencies.

Description: H-45 space heater is a 45K BTU heater intended to heat the General Purpose and TEMPER tents. Operates without use of electrical power; burns liquid (JP-8, JP-5, JP-4, DF-1, DF-2, DF-A, gasoline) and solid (coal & wood) fuels.

Power Requirements: None.

Size: 18"Dia X 24"H

Weight: 67 lbs

Cost: \$500

Status/availability: CTA Item, Available through DSCP

Transportability: All traditional modes

Supportability: Standard Army Retail Supply and Maintenance Systems TM 9-4520-257-12 &P

NSN: 4520-01-329-3451

Thermal Electric Fan (TEF)



Capabilities: Circulates heated air inside all military tents to improve habitability conditions and significantly reduce fuel usage by generating its own electrical power.

Description: TEF is a silent, compact, rugged fan unit placed on top of any military tent heater. A built-in thermoelectric module converts heat from the top surface of heater into electricity to power the 450 CFM TEF. The TEF moves heated air around the tent to provide a more even heat distribution throughout the entire shelter.

Power requirements: None.

Size: 14"Dia; 10"H

Weight: 12 lbs

Cost: \$500

Status/availability: CTA Item, Available through DSCP Transportability: All traditional modes

Supportability: Standard Army Retail Supply and Maintenance Systems

NSN: 4520-01-457-2790

Space Heater Small (SHS)



Capabilities: Provides heated air to safely and efficiently warm soldiers operating in basic, cold, and extreme cold environments. Provides new capability for heating smaller tents (4man or less). Description: SHS is a lightweight, portable, multi-fueled, non-powered heater intended to heat the 4 man Soldier Crew Tent. Provides a maximum heat output of 12K BTU with a high/low adjustment capability. Burns liquid (JP-8, JP-5, DF-1, DF-2, DF-A) fuels. Integral fuel tank eliminates the need for fuel can, fuel can stand, gravity feed adapter, hoses and fittings.

Power requirements: None.

Size: 16"L x 8.5"W X 14"H

Weight: 20 lbs

Cost: \$400 (estimated)

Status/availability: CTA 50-909 Item, Available through DSCP by FY02

Transportability: Traditional modes

Supportability: Standard Army Retail Supply and Maintenance Systems

NSN: 4520-01-478-9207

POC: MAJ Tom Waild, DSN 256-5637/(508)233-5637